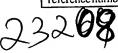
Applicant's or agent's file	:
reference number	

BN 52 PCT

International application No.



INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referre on page, line	ed to in the description			
B. IDENTIFICATIONOFDEPOSIT	Further deposits are identified on an additional sheet			
Name of depositary institution ECACC European Collection of Cell C	Cultures			
Address of depositary institution (including postal code and country Centre for Applied Microbiology & Research Salisbury Wiltshire SP4 OJG United Kingdom	(יכ			
Date of deposit	Accession Number			
December 7, 2000	00120707			
C. ADDITIONAL INDICATIONS (leave blank if not applicable	e) This information is continued on an additional sheet			
In respect of all designated States to which such action is possible and to the extent that it is legally permissable under the law of the designated State, it is requested that a sample of the deposited microorganism be made available only by the issue thereof to an independent expert, in accordance with the relevant patent legislation, e.g., EPC Rule 28 (4); UK Patent Rules 1995, Schedule 2, Paragraph 3; Australian Regulation 3.25(3); Danish Patents Act Sections 22 and 33(3) and generally similar provisions mutatis mutandis for any other designated State. D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)				
E. SEPARATE FURNISHING OF INDICATIONS (leave	blankifnot applicable)			
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")				
For receiving Office use only	For International Bureau use only			
This sheet was received with the international application	This sheet was received by the International Bureau on:			
Authorized officer	Authorized officer			



Centre for Applied Microbiology and Research & European Collection of Cell Cultures

This document certifies that Virus
(Deposit Ref. V00120707) has been accepted as a patent deposit,
in accordance with
The Budapest Treaty of 1977,
with the European Collection of Cell Cultures on 7TH December 2000

Dr P J Packer Quality Manager, ECACC

BEST AVAILABLE COPY

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS EDURE FOR THE

INTERNATIONAL FORM

TO

EAVARIAN NORDIC RESEARCH INSTITUTE GMBH FRAUNHOFERSTRASSE 18B D-82152 MARTINSRIED GERMANY

NAME AND ADDRESS OF DEPOSITOR

PURPOSES	OF	PATENT	PROCE

. IDENTIFICATION OF THE MICROORGANISM	
dentification reference given by the EPOSITOR:	Accession number given by the INTERNATIONAL DEPOSITARY AUTHORITY:
: √A~575	V00120707
I. SCIENTIFIC DESCRIPTION AND/OR PROPOSED TA	AXONOMIC DESIGNATION
The microorganism identified under I above was a	accompanied by:
X A scientific description	
A proposed taxonomic designation	
(Mark with a cross where applicable)	
III. RECEIPT AND ACCEPTANCE	
his International Depository Authority accepts ich was received by it on 7th December 2000	the microorganism identified under I above, (date of the original deposit) ¹
IV. RECEIPT OF REQUEST FOR CONVERSION	
A request to convert the original denosit to a	late of the original deposit) and
IV. INTERNATIONAL DEPOSITORY AUTHORITY	
Name: Dr P J Packer	Signature(s) of person(s) having the power to represent the International Depository Authority or of authorized officials(s):
Address: ECACC - CAMR - Porton Down - Salisbury SP4 OJG	Date: (155) W.J.

Where Rule 6.4(d) applies, such date is the date on which the status of international depositary authority was acquired

1991

APPENDIX 3

Page 24

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

TO

BAVARIAN NORDIC RESEARCH INSTITUTE GMBH FRAUNHOFERSTRASSE 18B D-82152 MARTINSRIED GERMANY VIABILITY STATEMENT
Issued pursant to Rule 10.2 by the
INTERNATIONAL DEPOSITARY AUTHORITY
identified on the following page

NAME AND ADDRESS OF THE PARTY
TO WHOM THE VIABILITY OF STATEMENT
IS ISSUED

I. DEF	POSITOR	II. IDENTIFICATION OF THE MICROORGANISM				
Name:	BAVARIAN NORDIC RESEARCH INSTITUTE GMBH	Accession number given by the INTERNATIONAL DEPOSITORY AUTHORITY:				
Address:	FRAUNHOFERSTRASSE 18B D-82152 MARTINSRIED GERMANY	00120707 Date of the deposit or of the transfer: 7TH December 2000				
II. VIABILITY STATEMENT						
The viability of the microorganism identified under II above was tested on 2. On that date, the said microorganism was viable						
3	no longer viable					

- Indicate the date of the original deposit or, where a new deposit or a transfer has been made, the most relevant date (date of the new deposit or date of the transfer).
- In the cases referred to in Rule 10.2 (a) (ii) and (iii), refer to the most recent viability test.
- 3 Mark with a cross the applicable box.

IV.	CONDITI	ONS UNDER I	WHICH THE	VIABILITY	TEST HAS	BEEN	PERFORMED				
MVA-57	5 - V001	20707							·		
THIS V	IRUS WAS	TITRATED C	N BHK CEL	LS TC1D ₅₀ =	106.5						
		•									
		•									
v.	INTERNA	ATIONAL DEP	OSITARY AU	JTHORITY							
Name:	5 5:	Dr P J F ECACC CA Porton I	AMR Down			to 1	cepresent t	of person(s) the Internat of authorize	ional De	positary	· .
		Salisbu	Ξ Y			į.					

Wiltshire SP4 OJG

⁴ Fill in if the information has been requested and if the results of the test were negative.

Certificate of Analysis

Product Description Accession Number MVA-575 00120707

Test Description:

Determination of TCID₅₀ of cytopathic Virus titration. (SOP ECACC/055) Cell

Acceptance Criterion/Specification/Criteria: Negative controls should show no sign of Cytopathic effects. The Test Sample is serially diluted into in 4 wells of indicator cell lines for each dilution. Cytopathic effects indicate that virus is present. Virus titre is calculated using the below equation where x is the value obtained from a standard TCID₅₀ Table as a result of the distribution of the wells displaying less than 4 positive wells per dilution, and y is the value of the highest dilution where all 4 wells are positive:

$$TCID_{50} = \frac{1}{y} \times 10^{1+x}$$

Date:

19/01/01

Result: Indicator Cell Line:

BHK 21 CLONE 13

Negative Control:

NO CPE CPE

Test Sample:

4, 4, 0

Distribution of less that 4 positive wells:

0.50

X: Y:

10-5

$$TCID_{50} = \frac{1}{10^{-5}} \times 10^{1+0.50}$$
$$= 10^{6.5}$$

Overall Result:

Virus Present

Test Description:

The Detection of Mycoplasma by Isolation on Mycoplasma Pig Serum Agar and in Mycoplasma Horse Serum Broth.

SOP QC/MYCO/01/02

Acceptance Criterion/Specification: All positive controls (M. pneumoniae & M. orale) must show evidence of mycoplasma by typical colony formation on agar plates. Broths are subcultured onto Mycoplasma Pig Serum Agar where evidence of mycoplasma by typical colony formation is evaluated. All negative control agar plates must show no evidence of microbial growth.

The criteria for a positive test result is evidence of mycoplasma by typical colony formation on agar. A negative result will show no such evidence.

Test Number:

21702

Date:

12/02/01

Result:

Positive Control:

Positive

Negative Control:

Negative

Test Result:

Negative

Overall Result:

PASS

Authorised by ECACC, Head of Quality 5/20 Date

Certificate of Analysis

Product Description Accession Number MVA-575 00120707

Test Description:

Detection of Mycoplasma using a Vero indicator cell line and Hoechst 33258

fluorescent detection system.

SOP QC/MYCO/07/05

Acceptance Criterion/Specification: The Vero cells in the negative control are clearly seen as fluorescing nuclei with no cytoplasmic fluorescence. Positive control (M. orale) must show evidence of mycoplasma as fluorescing nuclei plus extra nuclear fluorescence of mycoplasma DNA. Positive test results appear as extra nuclear fluorescence of mycoplasma DNA. Negative results show no cytoplasmic fluorescence.

Test Number:

21702

Date:

12/02/01

Result:

Positive Control:

Positive

Negative Control:

Negative Negative

Test Result: Overall Result:

PASS

.

Test Description:

Detection of bacteria and fungi by isolation on Tryptone Soya Broth (TSB) and

in Fluid Thioglycollate Medium (FTGM). SOP QC/BF/01/02

Acceptance Criterion/Specification: All positive controls (*Bacillis subtilus, Clostridium sporogenes* and *Candida albicans*) show evidence of microbial growth (turbidity) and the negative controls show no evidence of microbial growth (clear).

The criteria for a positive test is turbidity in any of the test broths. All broths should be clear for negative test result.

Test Number:

21702

Date:

12/02/01

Result:

Positive Control:

Positive

Negative Control:

Negative

Test Result:

Negative

Overall Result:

PASS

_ 1	
A 0 1	ECACC, Head of Quality. 5/3/01 Date
よておん ニ	5/3/01 Date
Authorised by	ECACC, Head of Quanty
20	



ECACC use only Accession No:

Depositors Code:

Patent Deposit Accession Form - Virus

DEPOSITOR IN	FORMATION ·	•	
Name of Depositor	/Company/Institute Bavarian Nordic Re	esearch Institute GmbH	•
(NB this will be the	e name that appears on certification)	·	
Contact Name	Dr. Paul Howley, Dr. Petra Piel	lken'	
Depositor Address	Fraunhoferstraße 18b, D-82152 M	Martinsried, Germany	
THAN 89 8565	5 0030	Fax No ++49 89 8565 1333	
BIOHAZARD STA	ATEMENT MUST BE ENCLOSED		
The deposit is made	de in accordance with the terms of the Budapest Tr	eaty 1977. I agree to abide by the conditions and regula	
deposit of cell line:	s to the ECACC.	a was a sure of the containors and regula	nons regardā
_	-		
Signature	Rellieu.	Date 05.12 2000	
Address to which in Accounts Dep	nvoice should be sent (if different from above) partment, Bavarian Nordic Resear		
Fraunhoferst	craße 18b	ON INDUITABLE BIRDH	
	insried, Germany		
VIRUS INFORMA	ATION		
Name in full	Modified Vaccinia Virus Ankara		
Abbreviated Name		Identification on Ampoules	
Strain .	No. 575	Serological Type	
Normal Host	None	Serological Type	
Virus Titre Deposit	ed		
VIRUS PROPAGA			
Host cells (first cho	Chicken Embryo Fibrobla	ct (CEE)	• .
Alternative Host Ce	ells	su (uFF)	
Details of Host Cell	Growth (media, temperature, seeding density, growth	factors etc)	
Chicken Emb	ryo Fibroblast Cultured in RPMI	Media Supplemented with 10% FCS.	. •
AT 37°C/5%60	CO2. No Growth Factors Needed.		
Details of Virus Gro	owth (eg confluency of host cells, co-cultivation, moi, et	ffects, time taken)	
I <u>nfect CEF C</u> e	ell At Near Cell Confluency (Apr	prox. 90%) At MOI 0,1 TCID50/Cell	
VIRUS STORAGE	Confluency; Infection Times or	Average 2 Days At 0700 miles	
Material stored (eg :	supernatant, infected cell extract, viable infected cells e	to)	
Temperature and co		\t-80 ℃	•
VIRUS ASSAY			,
Method (enclose if n	ictessary)		
Does not fo	orm Plaques. It forms Foci of CP	E in CFF Monolayers. Titrate by	
LIII.KA 11/WK. UK	FERENCES (if any) TCID50 Method - Re et al. 2000 in Methods in Molec	tonone.	
	EVANT INFORMATION Gene Therapy: N	Methods and Protocol s. Ed. (A) U. Stein. Human Press (Today)	s Research
/irus Looses [MM Tris-Hc]	Viability At Low ph. Dilute Vir	Timore	ow's Health

European Collection of Cell Cultures, Centre for Applied Microbiology & Research Salisbury, Wiltshire SP4 OJG, UK.

Tek +44 1980 612512 Fax: +44 1980 611315 E.Mail: ecacc@camr.org.uk Web Site: www.camr.org.uk





ECACC use only
Accession No:
Depositors Code:

BIOHAZARD STATEMENT

(To be included with all deposits)	
Deposit category	DNA DNA Probe Bacteria
Cell Culture Plant Culture Virus Recombinant	DNA DNATION Duccins
Does the above deposit represent an infectious, toxic or allergenic hazard? If yes, please give details and any associated hazard category (eg. ACDP category) MVA is classified into biosafety level 1 (S1)	Yes No In No and fax to ECACC PRIOR to shipment of cells.
File No.: 6790-10-14	
Date: May 1997	
	n
Does the above deposit contain genetically manipulated material?	Yes LI No LE
If yes, please enclose a general description and answer the following:	·
a. is the material	DNA RNA L
b. is the material present in a host organism?	Yes No
c. is the genetic material readily transferred to environmental organisms?	Yes No
d. is the genetic material likely to be expressed as protein?	Yes No
1 41)
	•
ie, i. containment level	•
ii. GMO type For any positive responses to questions b-d please give details	
· ·	
	<u> </u>
Please supply any further details which would be relevant to assessing the safe h	andling conditions for materials to be deposited at ECACC.
Please supply any further details which would be relevant to assessing the sale in	
Signed 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
Print name Dr. Petra Pielken	
Please note that deposits which are, or contain, animal pathogens require a submit information requested by ECACC for licence applications as quickly as	n import licence into the EC. Please allow 8 weeks for this processible.

European Collection of Cell Cultures, Centre for Applied Microbiology & Research Salisbury, Wiltshire SP4 0JG, UK.

Tel: +44 1980 612512 Fax: +44 1980 611315 E.Mail: ecacc@camr.org.uk Web Site: www.camr.org.uk

